SCREENING SITE INSPECTION REPORT
FOR
LOGAN STORAGE SITES
FRANKLIN GROVE, ILLINOIS
U.S. EPA ID: ILD025475914
SS ID: NONE
TDD: F05-8912-089
PAN: FIL0705SB

SEPTEMBER 4, 1991

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SIGNATURE PAGE
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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Logan Storage Sites (Logan Storage site) under contract number 68-01-7347.

The site was discovered in early 1976 when the Lee County Health Department notified the Illinois Environmental Protection Agency (IEPA) that drums were stored on-site.

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Kenneth Page of IEPA and is dated May 22, 1985 (IEPA 1985).

FIT prepared an SSI work plan for the Logan Storage site under technical directive document (TDD) F05-8912-089, issued on December 12, 1989. The SSI work plan was approved by U.S. EPA on April 5, 1990. The SSI of the Logan Storage site was conducted on August 21 and 22, 1990, under amended TDD F05-8912-089, issued on April 19, 1990.

The FIT SSI included an interview with a site representative, a reconnaissance inspection and geophysical survey of the site, and the collection of six soil/sediment samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the

> most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

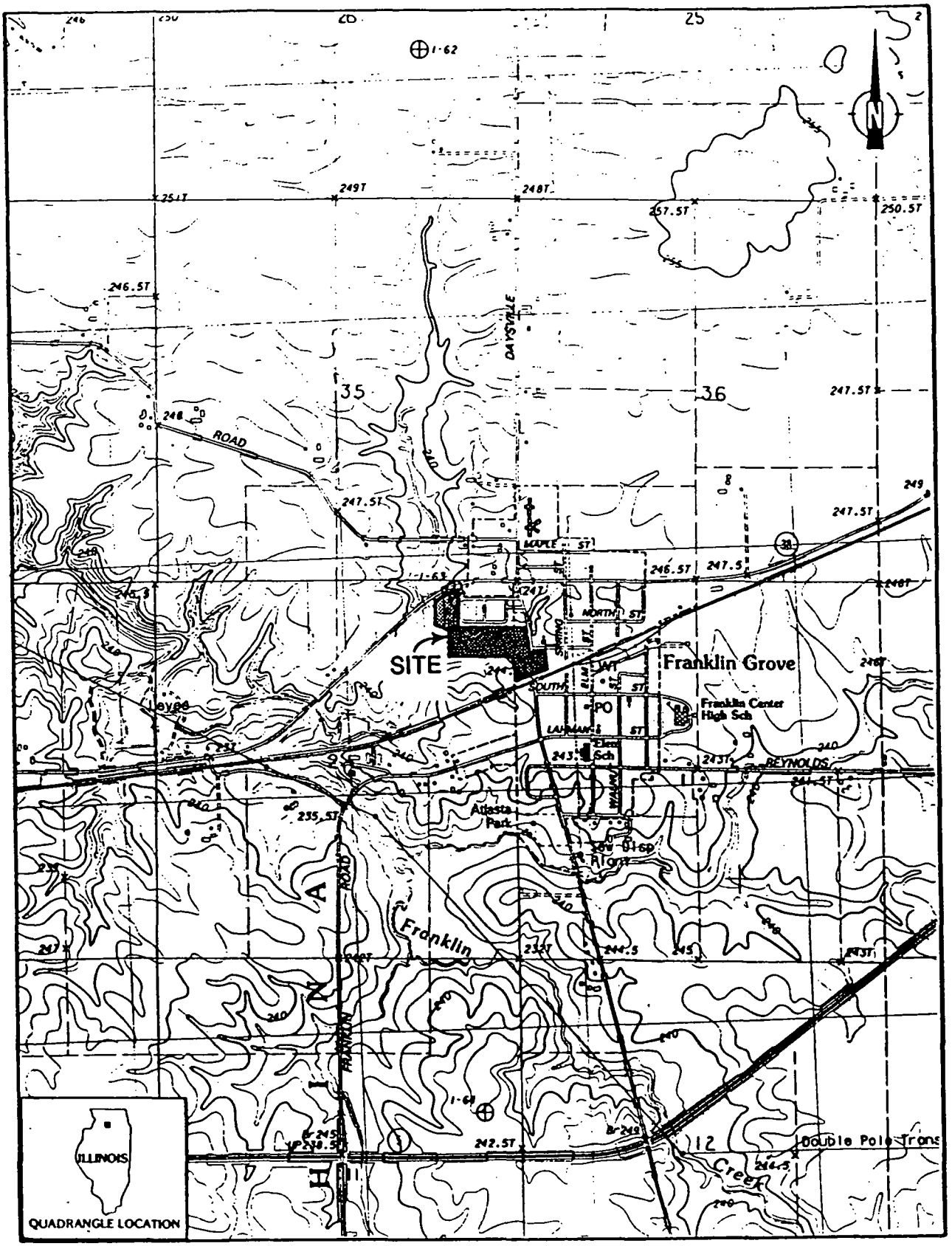
2.2 SITE DESCRIPTION

The Logan Storage site, which is known commercially as the Bob Logan Tractor Company, is an active tractor parts salvage yard. The irregularly shaped site consists of approximately 19 acres on the northwest border of the town of Franklin Grove, Lee County, Illinois (NE1/4NE1/4 sec. 2, NW1/4NW1/4 sec. 1, T.21N., R.10E). The remaining area in the vicinity of the site consists of farmland. A stream borders the site to the west; this stream flows into Franklin Creek approximately 1/2 mile southwest of the site (see Figure 2-1 for site location).

A 4-mile radius map of the Logan Storage site is provided in Appendix A.

2.3 SITE HISTORY

The site is owned and operated by Robert Logan and is the location of Logan's business operation, a used tractor parts salvage yard known as the Bob Logan Tractor Company. Logan has owned the site since approximately 1950. Before that, the site was jointly owned by several persons and was used for farming and residences. Logan began business operations on-site in approximately 1960 (Logan 1990).



SOURCE: USGS, Franklin Grove, IL Quadrangle, 7.5 Minute Series, 1983.

SCALE
0 0.5 1 MILE

FIGURE 2-1 SITE LOCATION

According to IEPA, Logan began accepting drums containing off-grade paints, paint wastes, and solvents from Valspar Corporation (Valspar) sometime during the early 1970s. Valspar is a paint manufacturer located in Rockford, Illinois. By 1976 approximately 1,400 drums were being stored on-site. Logan had no permits to store these drums (IEPA 1985).

According to file information, IEPA conducted 11 inspections at the Logan site, the first occurring on June 10, 1976. A number of weathered, leaking drums were observed in subsequent site inspections. The drums were located in various on-site areas. However, most of the drums were located in the northern section of the site, along State Route 38. These drums were stacked on wooden pallets. Other drums were located in the southern section of the site, near Logan's business office and near some sheds on the south side of the site. Logan informed IEPA that he was storing the drums for Valspar. Many of the drums contained off-grade paint that was used for Logan's business operations.

Sometime in 1980, at IEPA's request, Logan, IEPA, and representatives from Valspar met to discuss Logan's paint storage practices. As a result, Logan and Valspar agreed to remove the drums. Waste Reduction, Inc. (Waste Reduction), a waste removal firm from White Bear Lake, Minnesota, was retained by Valspar to oversee the drum removal (Logan 1990). All drums, spilled material, and contaminated soils were removed from the site by October 30, 1982, and disposed of in various locations. A number of drums were transported to Huckill Chemical, in Ohio, and Solvent Recovery Corporation, in Missouri, for recovery; the remainder were landfilled at the BFI/Davis Junction hazardous waste landfill in Davis Junction, Illinois, and at a landfill for nonhazardous materials in Wahpeton, North Dakota. Jim Kinsey, an engineer for Waste Reduction, was in charge of removal activities. IEPA monitored the drum removal activities through a number of site inspections.

According to IEPA officials, it was alleged that drums have been buried on-site. However, IEPA has no evidence that this actually occurred (Wengrow 1990).

No litigation or further investigations are pending concerning the Logan Storage site (Logan 1990).

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Logan Storage site. Individual subsections address the site representative interview, reconnaissance inspection, geophysical survey procedures and results, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exception. An extra soil sample was added to better characterize the site. This brought the total number of samples to six instead of the five that had been proposed in the work plan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Logan Storage site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Stan Senger of FIT conducted an interview with Robert Logan, site representative for Logan Storage. The interview took place in Logan's office at 8:30 a.m. on August 21, 1990. Jeff Taylor of FIT was also present. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Logan Storage site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 11:00 a.m. and

included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was not accompanied by a site representative during the reconnaissance inspection.

Reconnaissance Inspection Observations. The 19-acre site consists of three sections (see Figure 3-1 for site features). The northern section of the site is a horse pasture bordered on the north by State Route 38, on the east by a cemetery, and on the west by a stream. This stream flows from the north under State Route 38. The northern section of the site is fenced on the north, south, and east sides. Gates are located in the northeast and southeast corners of the fence. Fragments of tractor parts were scattered throughout this section, which had been used in the past to store a majority of the metal drums located on-site. FIT did not observe any stained soil in this section.

The central section of the site is a wooded area that abuts the southeast corner of the northern section. This section is bordered on the north by the cemetery, on the east by State Street, on the south by an agricultural area, and on the west by a wooded area. Tractor parts were scattered throughout this section; an access road leads from the northern section of the site, across the central section to State Street. The Logan residence is located on the northern border of the central section of the site, approximately 50 feet east of the access road. Several houses are located at the southeast corner of the central section of the site, adjacent to State Street.

The southern section of the site abuts the southeast corner of the central section and is bordered on the west by the agricultural area, on the south by the Chicago and North Western Railroad tracks, and on the east by the city of Franklin Grove. Metal drums had also been stored in this section of the site. Logan's office and five storage sheds are located directly west of State Street. FIT observed oil cans and tractor parts in the sheds. Tractor parts were also scattered throughout the southern section of the site. To the east of State Street is another storage shed that contains tractor parts. Tractor tires were stacked directly east of this shed, and the cement foundation of another shed was located to the south of the tires. FIT observed an area of

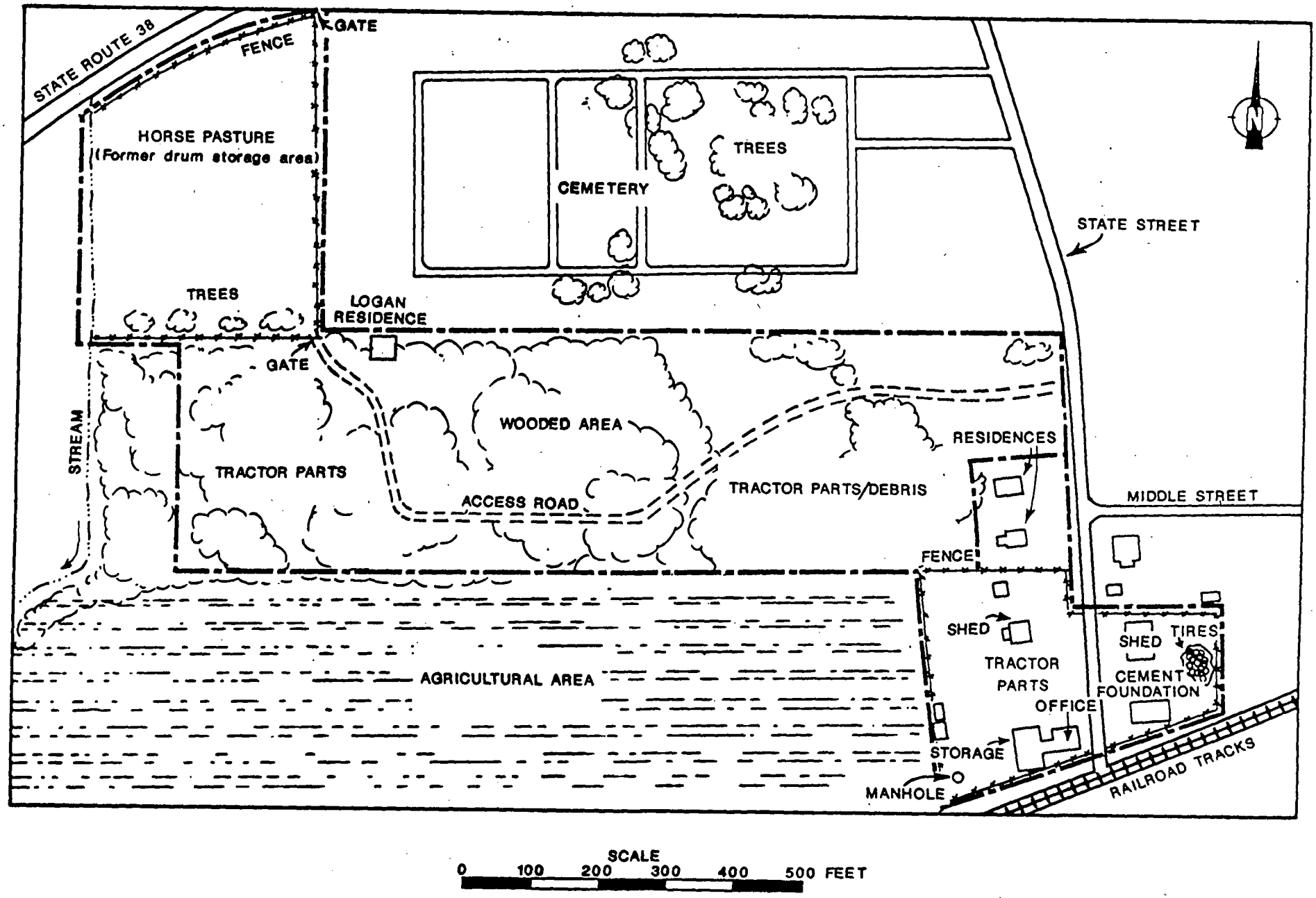


FIGURE 3-1 SITE FEATURES

stained soil directly west of the cement foundation. A manhole is located in the southwest corner of the south section of the site.

FIT photographs from the SSI of the Logan Storage site are provided in Appendix C.

Geophysical Survey Procedures. A geophysical survey was conducted at the Logan Storage site on August 21, 1990, in accordance with the U.S. EPA-approved work plan. This survey was conducted on the southern portion of the northern section of the site, where drums were known to have been stored. This survey was conducted to determine whether drums were buried on-site.

A survey of the total magnetic field was conducted with an EG + G geometrics G-856 proton precession magnetometer. The magnetometer's sensor was maintained at a constant height of 3 meters above the ground surface by connecting the sensor to a 3-meter-long staff. The survey was completed by taking 16 readings and 5 base readings at points on a grid measuring 50 square feet that had been measured off on the ground surface. The geophysical survey grid is presented in Figure 3-2. Magnetometry data is listed in Table 3-1.

Geophysical Survey Results. The results of the survey indicate that the regional magnetic field of the earth was relatively subdued with little variation over the mapped area at the time of the survey (see Figure 3-3 for magnetic anomaly map). However, superimposed over the regional magnetic field are several local anomalies of limited extent. These anomalies appear to manifest themselves at single points only. Therefore, their sources are interpreted to have limited depth and areal extents. Examples include anomalies with maximums of 56944.4, 56940.0, and 56893.0 gammas. The density of grid points precludes depth estimation of the anomalies, but half-width formulas suggest depths of sources at 4 to 8 feet beneath the surface of the ground (Telford et al. 1976). Finally, the three semicontinuous anomalies at the bottom of the survey grid presented in Figure 3-3 (56932.4, 56890.0, and 56897.2 gammas) may also be explained by shallow sources with limited depth extent. However, nearby ferrous objects at the surface appear to be the source of these disturbances. In conclusion, the mapped area appears to be free of any substantial amount of ferrous material near the ground surface.

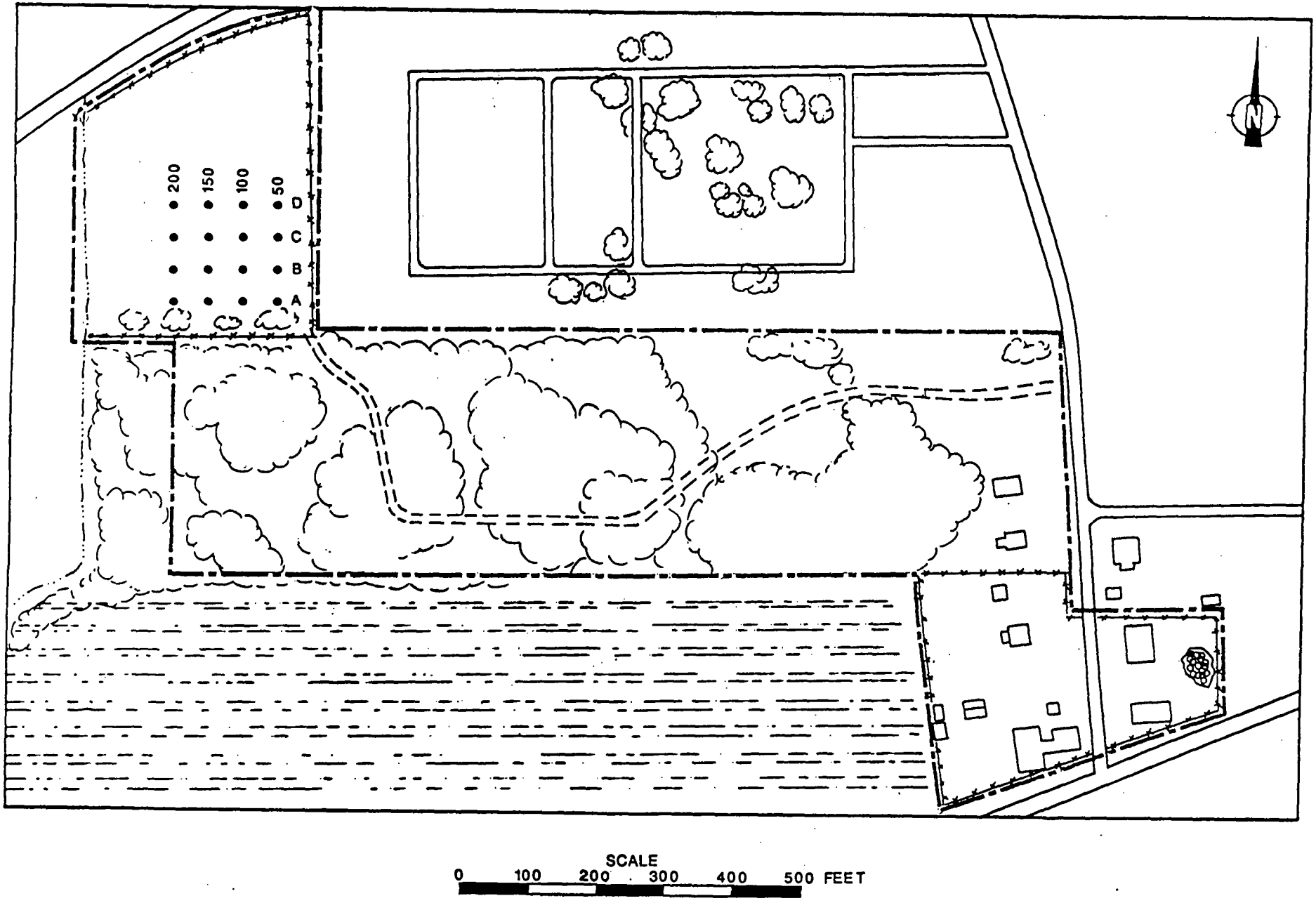


FIGURE 3-2 GEOPHYSICAL SURVEY GRID

Table 3-1

MAGNETOMETRY DATA
RECORDED ON AUGUST 21, 1990

Station	Reading (gammas)
Base	56904.6
A-50	56926.5
A-100	56908.9
A-150	56902.2
A-200	56945.1
Base	56913.5
B-50	56907.0
B-100	56954.3
B-150	56932.8
B-200	56931.8
Base	56915.9
C-50	56933.3
C-100	56938.0
C-150	56982.9
C-200	56961.0
Base	56941.4
D-50	56924.9
D-100	56940.8
D-150	56934.8
D-200	56937.7
Base	56911.0

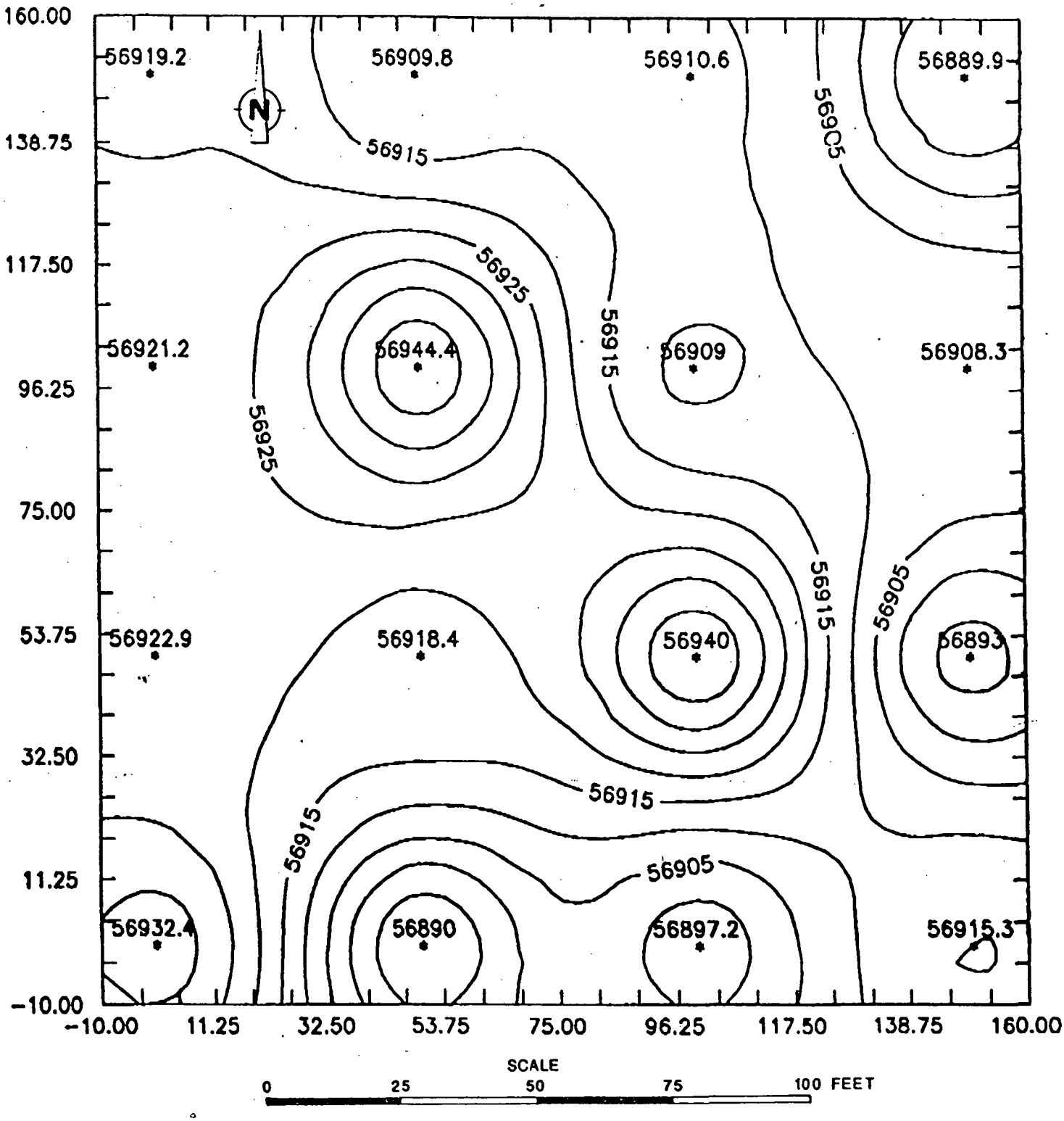


FIGURE 3-3 MAGNETIC ANOMALY MAP OF LOGAN STORAGE SITE

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On August 22, 1990, FIT collected four soil samples and two sediment samples, including one potential background sample from the Logan Storage site. Portions of the on-site soil/sediment samples were offered to the site representative, but the portions were declined.

Soil/Sediment Sampling Procedures. Soil samples S1 and S2 were collected from the southern section of the site, where, according to FIT file information, drums of paint wastes were stored (see Figure 3-4 for soil/sediment sampling locations). Samples S1 and S2 were collected to determine whether any contaminants had leaked onto the ground from the drums. Sample S1 was a grab sample collected with a trowel at a depth of 0 to 6 inches from a low spot in the section. Sample S2 was a grab sample collected at a depth of 0 to 6 inches from the area of stained soil. Sample S2 was also collected with a trowel. Soil sample S5 was collected at a depth of 3 feet from the center of the northern section of the site. Sample S5 was collected with a posthole digger and trowel. Sample S5 was collected to determine whether TCL compounds and TAL analytes had leaked from the drums of paint waste into the soil. Soil sample S6 was collected as a potential background sample from an undisturbed area in the central section of the site, near the Logan home. Sample S6 was a grab sample collected at a depth of 0 to 6 inches with a trowel.

Sediment samples S3 and S4 were collected from the stream that runs along the west border of the northern section of the site. According to FIT file information, the northern section of the site was previously used to store drums containing off-grade paints, paint wastes, and solvents. Samples S3 and S4 were collected to determine whether TCL compounds and TAL analytes that may have leaked from these drums could have migrated to the stream. Sample S3 was a grab sample collected at a depth of 0 to 4 inches from the stream at the southwest corner of the northern section of the site. Sample S3 was collected with a trowel.

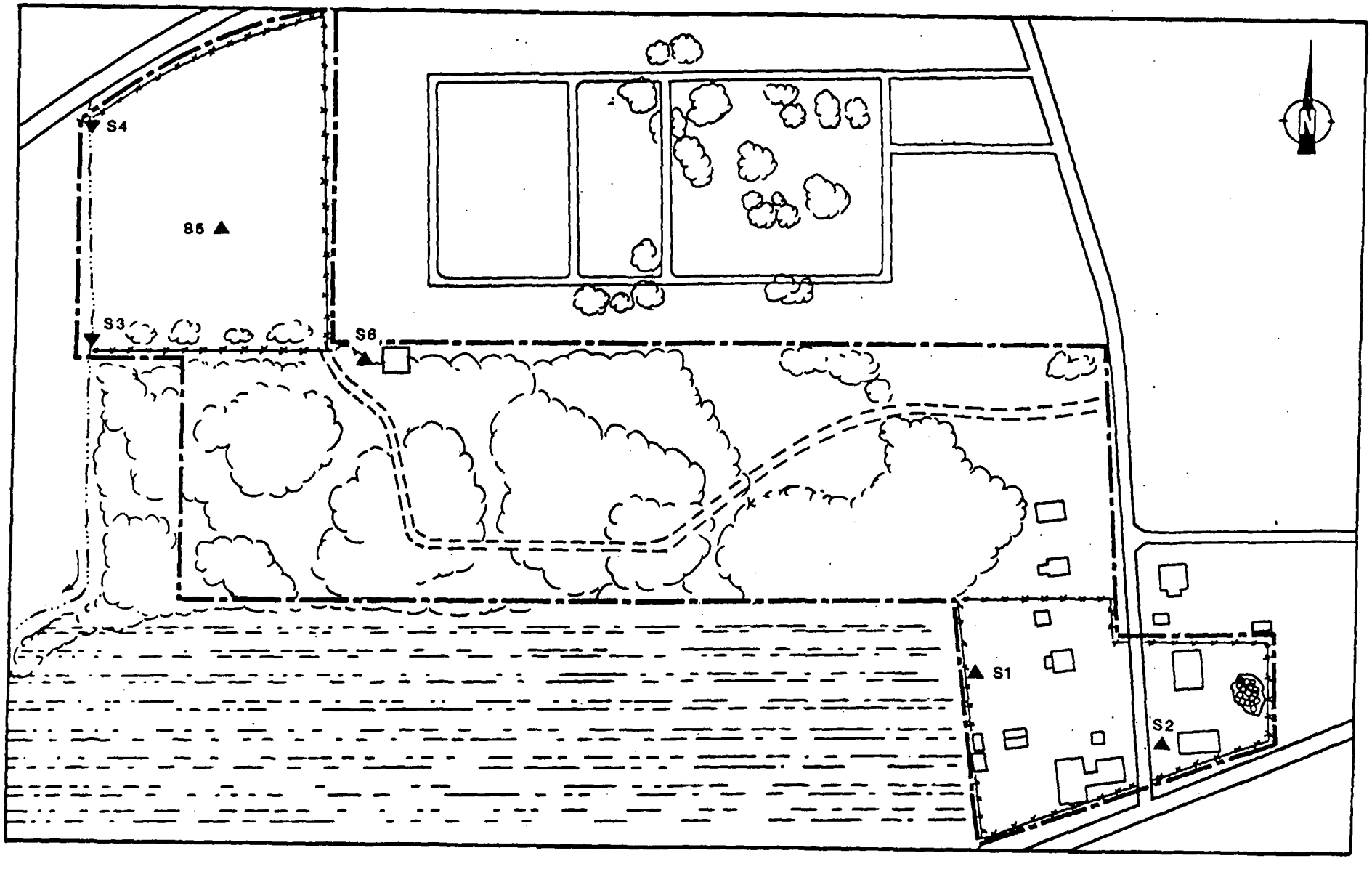


FIGURE 3-4 SOIL/SEDIMENT SAMPLING LOCATIONS

Sample S4 was also a grab sample, collected upstream of sample S3 at the northwest corner of the northern section of the site. Sample S4 was collected with a trowel at a depth of 0 to 3 inches.

For all samples collected, sample portions for volatile organic analysis were placed directly into sample bottles. The remaining sample portions were placed in stainless steel bowls, mixed, and transferred into sample bottles by using a trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples. The procedures included the scrubbing of all equipment (e.g., trowels, posthole digger, and bowls) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil/sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil/sediment samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil/sediment samples for TCL compounds and TAL analytes. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanides. Complete chemical analysis results of FIT-collected soil/sediment samples are provided in Table 4-1.

Quantitation/detection limits used in the analysis of soil/sediment samples are provided in Appendix D.

The analytical data for the chemical analysis of soil/sediment samples collected for this SSI have been reviewed by U.S. EPA for compliance with terms of CLP, and the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for validity and usability. Any additions, deletions, or changes to the data have been incorporated in the chemical analysis results table presented in this section.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL/SEDIMENT SAMPLES

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6
Date	8/22/90	8/22/90	8/22/90	8/22/90	8/22/90	8/22/90
Time	1045	1100	1200	1215	1220	1300
CLP Organic Traffic Report Number	EHA07	EHA08	ELY96	ELY97	ELY98	ELY99
CLP Inorganic Traffic Report Number	MELF92	MELF93	MELF94	MELF95	MELF96	MELF97
Compound Detected (values in µg/kg)						
Volatile Organics						
acetone	19J	12J	--	--	16J	14J
chlorobenzene	2J	2J	2J	1J	2J	2J
Semivolatile Organics						
n-nitrosodiphenylamine	--	190J	100J	180J	220J	180J
fluoranthene	200J	--	--	--	--	--
pyrene	180J	--	--	--	--	--
benzo[a]anthracene	110J	--	--	--	--	--
chrysene	240J	--	--	--	--	--
bis(2-ethylhexyl)phthalate	--	100J	--	130J	280J	--
benzo[b]fluoranthene	190J	--	--	--	--	--
benzo[a]pyrene	96J	--	--	--	--	--
Pesticides/PCBs						
4,4'-DDT	12J	--	--	--	--	--
Analyte Detected (values in mg/kg)						
aluminum	14,900	2,570	6,790	1,830	22,100	11,200
antimony	--	4.6BNJ	--	--	--	--
arsenic	5.6	3.7	--	1.2B	18.9	4.6
barium	222	150	85.6	31.9B	159	245

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6
beryllium	0.88B	--	--	--	0.8B	0.56B
cadmium	1.1BJ	2.8	0.37B	--	0.31B	0.54B
calcium	8,350	41,800	6,520	8,420	2,900	5,770
chromium	23.4	44	10.5	4.5	28.8	15.9
cobalt	10.7B	3.1B	6.2B	3.1B	12	10.7B
copper	81.2	94.8	15.8	5.6BJ	22.1	17
iron	19,800	10,300	12,000	5,110	35,000	13,700
lead	135	316	25.2	3.9	14.4	278
magnesium	4,810	22,300	3,680	4,560	4,920	2,770
manganese	985	685	559	617	522	1,530
mercury	0.15	0.51	--	--	--	0.12
nickel	19.8	12.2	9.5B	3.8B	25.2	16
potassium	2,570	526B	808B	408B	2,000	1,580
selenium	0.98B	--	--	--	0.55B	1B
sodium	104BJ	198B	218BJ	173BJ	181BJ	266B
thallium	0.33B	--	--	--	0.48B	--
vanadium	36.6EJ	7.5BEJ	23.6EJ	16.8EJ	55.5EJ	29.4EJ
zinc	209JN	1,030NJ	49.2NJ	15.5NJ	63.8NJ	86.4NJ

-- Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Logan Storage site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

Groundwater samples were not collected, in accordance with the U.S. EPA-approved work plan. However, soil/sediment sampling results indicate that a potential exists for TCL compounds and TAL analytes to migrate into the groundwater in the vicinity of the site. This potential is based on the following information.

- TCL compounds and TAL analytes were detected in on-site soil/sediment samples.

- Area well logs indicate the absence of a continuous confining layer within a 3-mile radius of the site.

- Wells drawing water from depths as shallow as 40 feet are located within the 3-mile radius of the site.

The potential for TCL compounds and TAL analytes to migrate from the site is also based on the geology of the site. The Logan Storage

site is located in north-central Lee County, where the surficial geology is composed of glacial till and alluvial deposits that consist mostly of clay. According to local well logs, these deposits range from 20 to 53 feet deep. These glacial and alluvial deposits overlie the Ordovician-age Galena-Platteville Limestone and St. Peter Sandstone bedrock (Student et al. 1981). All of the wells described in local well logs draw water from the limestone and sandstone bedrock. Because the well logs indicate the lack of a continuous confining layer throughout the 3-mile radius of the site, the limestone and sandstone bedrock appears to be the aquifer of concern (AOC).

The population potentially affected by the migration of TCL compounds and TAL analytes to groundwater in the area of the Logan Storage site consists of those persons served by the Franklin Grove municipal water system, and those persons outside the municipal water system but within a 3-mile radius of the site who use private wells. The nearest private well used for drinking water is located on-site, at the Logan residence. The City of Franklin Grove operates three municipal wells, which are all located 1/4 mile east of the Logan Storage site. These wells draw water from the AOC. The Franklin Grove municipal water system serves approximately 968 persons (Uphoff 1990).

The number of persons using private wells was determined by counting houses within a 3-mile radius of the site but outside the municipal water system on United States Geological Survey (USGS) topographic maps (USGS 1975, 1975a, 1983, 1983a, 1983b). One hundred and thirty homes were counted within a 3-mile radius of the site. This figure was then multiplied by the persons-per-household average of 2.73 for Lee County, Illinois (U.S. Bureau of the Census 1982), to obtain a population of 355 persons. The total population potentially affected by groundwater contamination, therefore, is approximately 1,323 persons.

5.3 SURFACE WATER

Surface water samples were not collected at the Logan Storage site, in accordance with the U.S. EPA-approved work plan. However, FIT did collect two sediment samples from the stream bordering the northern section of the site. TCL compounds and TAL analytes were detected in both sediment samples.

FIT believes a potential exists for TCL compounds and TAL analytes to migrate to surface water, based on the following information.

- TCL compounds and TAL analytes were detected in on-site soil/sediment samples.

- The northern section of the site gently slopes to the stream; there are no on-site structures to divert runoff from flowing to the stream.

The surface water potentially affected includes the stream and Franklin Creek. The stream flows into Franklin Creek approximately 1/2 mile southwest of the site. According to local officials and FIT observations, these creeks are small and are not used for recreation (Uphoff 1990).

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Logan Storage site. During the reconnaissance inspection, FIT site-entry instruments (OVA, combination oxygen meter and explosimeter, radiation monitor, and hydrogen cyanide detector) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates because the site is heavily vegetated.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Robert Logan, no documentation exists of an incident of fire or explosion at the site. According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI. Additionally, Franklin

Grove Fire Chief Pat Hilliker believes the Logan Storage site poses no threat of fire or explosion (Hilliker 1990).

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representative, no incidents of direct contact with TCL compounds or TAL analytes at the Logan Storage site have been documented. However, a potential for direct contact does exist, because TCL compounds and TAL analytes were detected in on-site soil samples. Sections of the site are not fenced nor is there any security system to limit access to the site. Logan's residence is located on-site, and additional residences are directly adjacent to the southern portion of the site. Logan also has three employees who work on-site. Customers have easy access to those sections of the site that are not fenced, and may also come into contact with on-site contaminants.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is 1,031 persons. This population was calculated by counting houses on a USGS topographic map within a 1-mile radius of the site (USGS 1983) and multiplying this number by the persons-per-household value of 2.73 (U.S. Bureau of the Census 1982).

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_____, 1975a, Chana, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

_____, 1983, Daysville, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

_____, 1983a, Dixon East, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

_____, 1983b, Franklin Grove, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

Wengrow, Bob, February 8, 1990, IEPA, Rockford Region, telephone conversation, contacted by Jeff Taylor of E & E.

6257:8

APPENDIX A

SITE 4-MILE RADIUS MAP

APPENDIX B

U.S. EPA FORM 2070-13

APPENDIX C

FIT SITE PHOTOGRAPHS

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND TARGET ANALYTE LIST QUANTITATION/DETECTION LIMITS

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 0254759114

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Logan Storage Site	State Street Box 216				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Franklin Grove	IL	61031	Lee	103	16

09 COORDINATES: LATITUDE 41° 50' 35.0" | LONGITUDE 089° 18' 08.0"

10 TYPE OF OWNERSHIP (Check one): ☒ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
8 21-17 90 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1950 (BEGINNING YEAR) / Present (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology + Environment (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Stan Senger	Water Resource Manager	E+E	(312) 663-9415
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Karen Spangler	Environmental Engineer	E+E	(312) 663-9415
Deneen Benford	Biologist	E+E	(312) 663-9415
Jeff Taylor	Biologist	E+E	(312) 663-9415
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Robert Logan	Owner	Box 216 State Street Franklin Grove IL 61031	(815) 456-2222
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	830	Overcast ~60-70°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Tom Crause	Illinois Environmental Protection Agency	(217) 782-6761

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeff Taylor	US EPA / FIT	Ecology and Environment	(312) 663-9415	12 27 90 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025475914

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS: _____
CUBIC YARDS: _____
NO. OF DRUMS: ~ 1400 55gal

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Unknown	Unknown	Waste was characterized by analytical results of on-site Soil Sample collected by FIT 8/22/90 See Section 2.3 in the narrative
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See Table 4-1 in narrative for complete results of on-site Soil Samples collected by FIT 8/22/90 See Section 2.3 in the narrative				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	N/A		FDS	N/A	
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State and Federal Files
Analytical Data results (E+E 1990)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025475914

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1323 — 04 NARRATIVE DESCRIPTION
See Section 5.2 in the narrative

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION
See section 5.3 in the narrative

01 ■ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1575 — 04 NARRATIVE DESCRIPTION
See section 5.4 in the narrative

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION
See Section 5.5 in th narrative

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1031 — 04 NARRATIVE DESCRIPTION
See Section 5.6 in the narrative

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE: 8/22/90) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: ~9 (Acres) — 04 NARRATIVE DESCRIPTION
See Section 4 in the narrative for complete analytical results

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1323 — 04 NARRATIVE DESCRIPTION
See Section 5.2 in the narrative

01 ■ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ~3 — 04 NARRATIVE DESCRIPTION
According to the site representative there are 3 workers on site

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~1575 — 04 NARRATIVE DESCRIPTION
The above population figure represents the approximate population residing within a 4-mile radius of the site.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025475914

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
A Potential exists because TCL compounds and TAL analytes were detected in on-site Soil Samples

01 ■ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)
A Potential exists for damage to Fauna if they ingest contaminated flora
Horses were present in the northern portion of the site

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
FIT believes there is no Potential for contamination of the food chain

01 ■ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ■ OBSERVED (DATE: 8/22/90) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~ 1575
04 NARRATIVE DESCRIPTION
TCL compounds and TAL analytes were detected in on-site Soil Samples collected by FIT

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None observed by FIT

01 ■ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
FIT observed a man hole Sewer cap on the South Portion of the site

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Site access is not limited, So a Potential exists for unauthorized dumping

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~ 1575

IV. COMMENTS

None

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI conducted by FIT (1990)
Analytical data (E+E 1990)
U.S.G.S. Topographic Maps

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	025475914

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
■ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
■ C. DRUMS, ABOVE GROUND	~1400	55-gallon drums
☐ D. TANK, ABOVE GROUND	of Paint waste that was	
☐ E. TANK, BELOW GROUND	removed	
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ■ A. BUILDINGS ON SITE

~8

06 AREA OF SITE

19 (Acres)

07 COMMENTS

By 1976 the Logan Storage Site contained approximately 1400 drums of Paint and Paint waste it received from the Valspar Corporation. Beginning in 1980 the drums were removed and were all gone by October of 1982 along with any spilled material and contaminated soil

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ■ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Presently, there are No drums of Paint waste at the Logan Storage site there were small drums of oil used by Logans tractor operation. Contaminated soil was detected on-site. No liner is or was present at this site

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS

Site is accessible with No fence around part of it.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

SI conducted by FIT (1990)
State and FIT file information

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	025475914

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ■
NON-COMMUNITY	C. ☐	D. ■

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ■
Unknown D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. ~1/4 (mi)
B. On-Site (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

■ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~1323

03 DISTANCE TO NEAREST DRINKING WATER WELL On-Site (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
45 (ft)	Possibly NE	43 (ft)	Unknown (gpd)	☐ YES ■ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)
The city of Franklin Grove has 3 wells all approximately 1/4 mile from the site.
Private wells are located as close as 1/2 mile

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS: Potential recharge through natural precipitation	☐ YES ■ NO	COMMENTS: No area nearby for discharge

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ■ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Unnamed Stream (tributary of Franklin Creek)	☐	On-Site (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. ~1031 NO. OF PERSONS	B. ~1164 NO. OF PERSONS	C. ~1323 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: On-Site (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
~430	~100 ft (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)
The Logan Storage site is located on the west side of Franklin Grove, IL (Pop ~970 people) Rural farmland surrounds Franklin Grove.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 025475914

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ■ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ■ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
3 (ft)	Unknown (ft)	Unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
3 (in)	2.5 (in)	< 3 %	west	< 3 %

09 FLOOD POTENTIAL
SITE IS IN N/A YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
N/A

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. N/A (mi)	B. > 1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
> 1 (mi)
ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

(COMMERCIAL/INDUSTRIAL)	(RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES)	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. On-site (mi)	B. On-site (mi)	C. Unknown (mi)	D. adjacent (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See Appendix A

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

U.S.G.S. Topographic maps
Area well logs
FIT file info.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025475914

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	6	Env. Control Tech. Corp. - Ann Arbor MI - TCL York Laboratories - Monroe CT - TAL	On File
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA 128	No readings above background
meter O_2/Explo Combination	20 & O_2 0% LEL
HCN monitox	No readings above background
Radiation detector	No readings above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND □ AERIAL

02 IN CUSTODY OF Ecology + Environment
(Name of organization or individual)

03 MAPS ■ YES □ NO

04 LOCATION OF MAPS Ecology + Environment

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Magnetometry Data (See Narrative, section 3)
Magnetometry Anomiles Map (See section 3)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI conducted by FIT
FIT file info.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	025475914

II. CURRENT OWNER(S) / **PARENT COMPANY** (if applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Robert Logan		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
Box 216 State St			
05 CITY / 06 STATE / 07 ZIP CODE		**12 CITY / 13 STATE / 14 ZIP CODE**	
Franklin Grove / IL / 61031			
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
N/A		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
05 CITY / 06 STATE / 07 ZIP CODE		**12 CITY / 13 STATE / 14 ZIP CODE**	
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
N/A		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
05 CITY / 06 STATE / 07 ZIP CODE		**12 CITY / 13 STATE / 14 ZIP CODE**	
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
N/A		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
05 CITY / 06 STATE / 07 ZIP CODE		**12 CITY / 13 STATE / 14 ZIP CODE**	

III. PREVIOUS OWNER(S) (List most recent first) / **IV. REALTY OWNER(S)** (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Unknown		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**04 SIC CODE**
05 CITY / 06 STATE / 07 ZIP CODE		**05 CITY / 06 STATE / 07 ZIP CODE**	
01 NAME	**02 D+B NUMBER**	**01 NAME**	**02 D+B NUMBER**
N/A		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**04 SIC CODE**
05 CITY / 06 STATE / 07 ZIP CODE		**05 CITY / 06 STATE / 07 ZIP CODE**	
01 NAME	**02 D+B NUMBER**	**01 NAME**	**02 D+B NUMBER**
N/A		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**04 SIC CODE**
05 CITY / 06 STATE / 07 ZIP CODE		**05 CITY / 06 STATE / 07 ZIP CODE**	

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI Conducted by FIT

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025475914

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Robert Logan	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Box 216 State St	

05 CITY	06 STATE	07 ZIP CODE
Franklin Grove	IL	61031

08 YEARS OF OPERATION	09 NAME OF OWNER
1950 - Present	Robert Logan

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
N/A	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER
N/A	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER
N/A	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI conducted by FIT

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025475914

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Valspar Corporation		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
200 Sayre			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Rockford	IL 61104		
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
N/A		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Robert Logan		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Box 216 State St.			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Franklin Grove	IL 61031		
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
N/A		N/A	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI conducted by FIT

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	025475914

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ■ D. SPILLED MATERIAL REMOVED — 02 DATE by 12/81 — 03 AGENCY IEPA
04 DESCRIPTION (See narrative)
Drums, spilled material, and contaminated soil removed by December 1981

01 ■ E. CONTAMINATED SOIL REMOVED — 02 DATE by 12/81 — 03 AGENCY IEPA
04 DESCRIPTION (See narrative)
Drums, Spilled Material, and contaminated soil removed by December 1981

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ■ G. WASTE DISPOSED ELSEWHERE — 02 DATE by 12/81 — 03 AGENCY IEPA
04 DESCRIPTION (See narrative)
Drums, Spilled Material, and contaminated Soil removed by December 1981

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ O. EMERGENCY DIKING SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025425914

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI conducted by FIT
FIT file info.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	025473914

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI Conducted by FIT

FIT File info

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 1 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/21/90

TIME: > 1220

DIRECTION OF PHOTOGRAPH: > North

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Field where drums were stored on north end of the > site. Orange flags were for the magnetometry grid. Route 38 in the background

DATE: > 8/21/90

TIME: > 1225

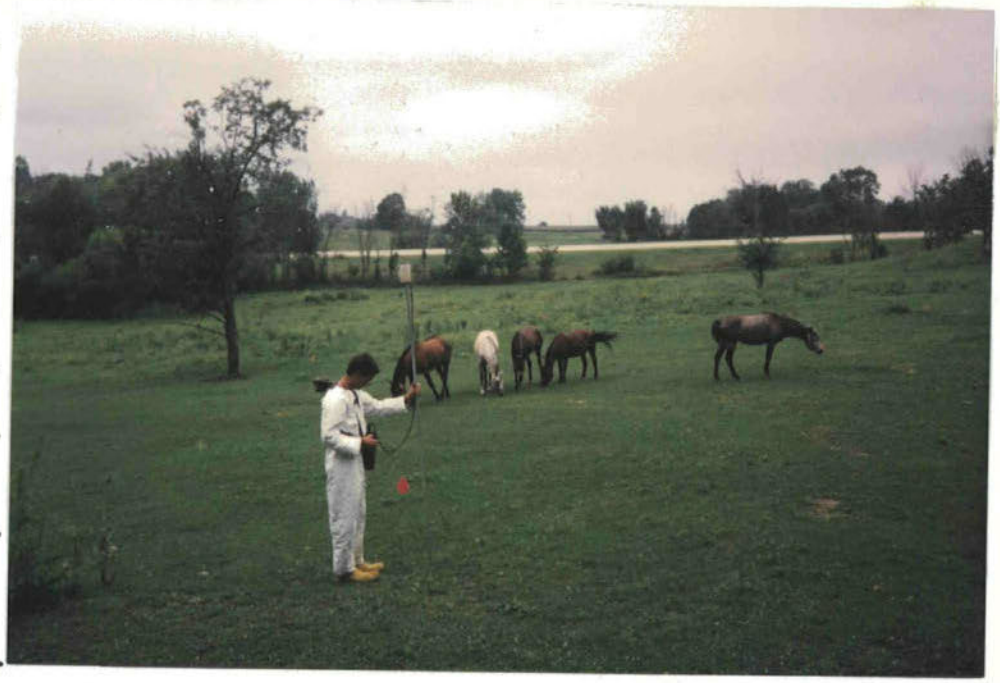
DIRECTION OF PHOTOGRAPH: > North

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A



DESCRIPTION: > Example of Magnetometry work conducted at > the Logan Storage Site

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 2 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/21/90

TIME: > 1235

DIRECTION OF PHOTOGRAPH: > North

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Western most Grid line in field where drums were

> stored

DATE: > 8/21/90

TIME: > 1245

DIRECTION OF PHOTOGRAPH: >

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > One of many Tractor parts that were present

> at the surface or protruding in the field along Route 38

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 3 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/21/90

TIME: > 1250

DIRECTION OF PHOTOGRAPH: > South East

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > South east corner of Grid area with Gate in > the background

DATE: > 8/21/90

TIME: > 1230

DIRECTION OF PHOTOGRAPH: > South

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > metal hay feeder located in field along south edge > an abandoned gate in the background.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 4 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/22/90

TIME: > 1015

DIRECTION OF PHOTOGRAPH: >

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Manhole near Southwest corner of Salvage yard area.

>

DATE: > 8/22/90

TIME: > 1015

DIRECTION OF PHOTOGRAPH: > East

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Facing east near manhole. Office in the background,

> Storage sheds in the foreground.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 5 OF 14

U.S. EPA ID: ILD025473914 TDD: F05-8912-089 PAN: PIL0705SB

DATE: 8/22/90 TIME: 1020 DIRECTION OF PHOTOGRAPH: South PHOTOGRAPHED BY: S. Sanger

WEATHER CONDITIONS: overcast ~ 70° SAMPLE ID (if applicable): N/A

DESCRIPTION: Logan Tractor Company office and workshed

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 6 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: 8/22/90

TIME: > 1020

DIRECTION OF PHOTOGRAPH: > Southwest

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > area west of office building and shed

>

DATE: > 8/22/90

TIME: > 1021

DIRECTION OF PHOTOGRAPH: > West

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Hydraulic oil cans in storage shed

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 7 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/22/90

TIME: > 1030

DIRECTION OF PHOTOGRAPH: > West

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Taken from Southeast corner of site showing

> railroad tracks and office building in the background

DATE: > 8/22/90

TIME: > 1030

DIRECTION OF PHOTOGRAPH: > West North west

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > NA

DESCRIPTION: > Taken from SE corner of the site showing

> The office on the far left and ~~the~~ a storage shed to the right

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 8 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/22/90

TIME: > 1030

DIRECTION OF PHOTOGRAPH: > North west

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Taken from SE corner of site showing the back side of a storage shed

DATE: > 8/22/90

TIME: > 1045

DIRECTION OF PHOTOGRAPH: > North

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S1

DESCRIPTION: > S1 closeup

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 9 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PILO7055B

DATE: > 8/22/90

TIME: > 1045

DIRECTION OF PHOTOGRAPH: > West

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S1

DESCRIPTION: > S1 perspective agricultural area to the west

>

DATE: > 8/22/90

TIME: > 1100

DIRECTION OF PHOTOGRAPH: > East

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S2

DESCRIPTION: > S2 close up facing east

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 10 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/22/90

TIME: > 1100

DIRECTION OF PHOTOGRAPH: > west

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S2

DESCRIPTION: > S2 Facing west Logan's office in > the background

DATE: > 8/22/90

TIME: > 1200

DIRECTION OF PHOTOGRAPH: > West

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S3

DESCRIPTION: > S3 Sediment sample collected downstream of > field where drums were stored.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 4 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/21/90

TIME: > 1200

DIRECTION OF PHOTOGRAPH:
> North

WEATHER CONDITIONS:
> Overcast

> ~ 70°

PHOTOGRAPHED BY:
> S. Senger

SAMPLE ID (if applicable):
> S3

DESCRIPTION: > S3 Perspective looking upstream

>

DATE: > 8/22/90

TIME: > 1215

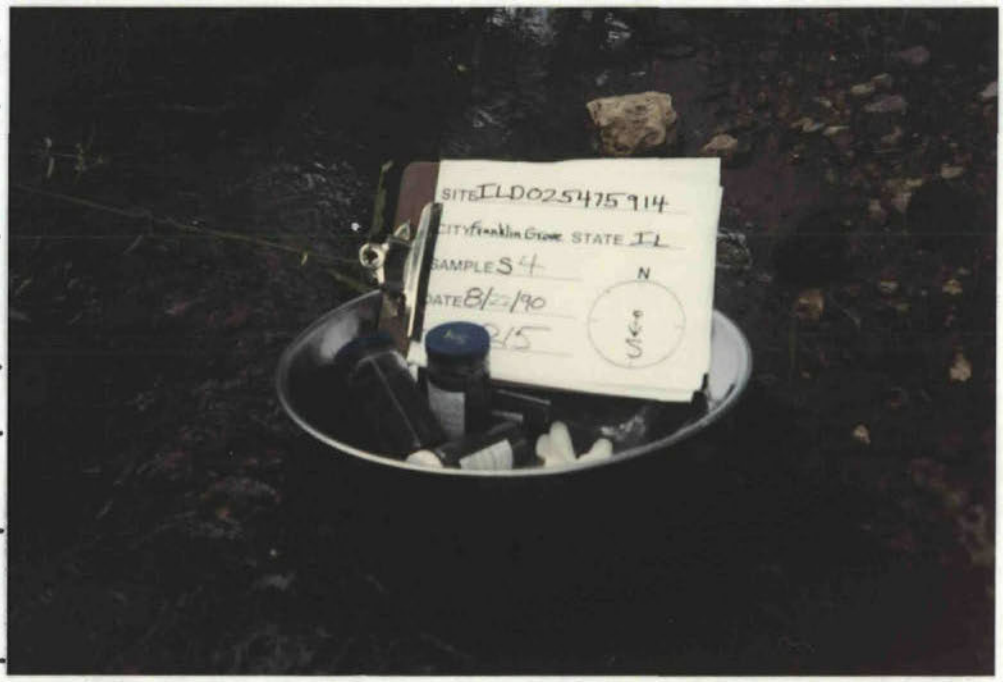
DIRECTION OF PHOTOGRAPH:
> South

WEATHER CONDITIONS:
> Overcast

> ~ 70°

PHOTOGRAPHED BY:
> S. Senger

SAMPLE ID (if applicable):
> S4



DESCRIPTION: > S4 Sediment Sample

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 12 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-8912-089 PAN: PIL07055B

DATE: > 8/22/90

TIME: > 1215

DIRECTION OF PHOTOGRAPH: > North

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S4

DESCRIPTION: > S4 Looking upstream under Route 38 bridge

>

DATE: > 8/22/90

TIME: > 1220

DIRECTION OF PHOTOGRAPH: > South

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S5

DESCRIPTION: > S5 closeup collected from the middle of the

> Magnetometry Grid

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 13 OF 14

U.S. EPA ID: ILD025475914 TDD: F05-E912-089 PAN: PIL07055B

DATE: > 8/22/90

TIME: > 1220

DIRECTION OF PHOTOGRAPH: > South east

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S5

DESCRIPTION: > S5 perspective with gate in South east

> Corner of the horse pasture

DATE: > 8/22/90

TIME: > 1300

DIRECTION OF PHOTOGRAPH: > West

WEATHER CONDITIONS: > Overcast

> ~ 70°

PHOTOGRAPHED BY: > S. Senger

SAMPLE ID (if applicable): > S6

DESCRIPTION: > S6 close up (Potential Background)

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Logan Storage Site PAGE 14 OF 14

U.S. EPA ID: ILD025425914 TDD: F05-8912-089 PAN: FIL0705SB

DATE: 8/22/90

TIME: 1300

DIRECTION OF PHOTOGRAPH: West

WEATHER CONDITIONS: Overcast

~70°

PHOTOGRAPHED BY: S. Senger

SAMPLE ID (if applicable): S6

DESCRIPTION: S6 perspective - Collected from an undisturbed area of the central portion of mesite

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND TARGET ANALYTE LIST QUANTITATION/DETECTION LIMITS

ADDENDUM A

ROUTINE ANALYTICAL SERVICES

CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM

TARGET ANALYTE LIST (TAL)

INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUE. .D AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG 1

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 120 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. _____in. Depth _____ft.
   c. Drilled x. Finished in Drift _____. In Rock x.
   Tubular _____. Gravel Packed _____.
   d. Grout:

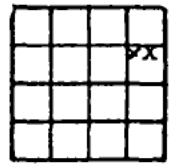
(KIND)	FROM (Ft.)	TO (Ft.)
cuttings	0	42

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast Iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes x No____
4. Date well completed 8-10-83
5. Permanent Pump Installed? Yes___ Date _____ No x
   Manufacturer owners Type _____ Location _____
   Capacity_____gpm. Depth of Setting _____Ft.
6. Well Top Sealed? Yes x No____ Type capped
7. Pitless Adapter Installed? Yes x No____
   Manufacturer Williams Model Number _____
   How attached to casing? bolted
8. Well Disinfected? Yes x No _____
9. Pump and Equipment Disinfected? Yes x No _____
10. Pressure Tank Size 42 gal. Type Well-x-trol
    Location basement
11. Water Sample Submitted? Yes_____ No x

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [redacted] Well No. _____
    Address [redacted]
    Driller Mendota Well & Pump License No. 102-84
11. Permit No. 108366 Date 8-4-83
12. Water from Sandstone (Formation) 13. County Lee
    at depth 85 to 120 ft. Sec. 3
14. Screen: Diam._____in. Twp. 21N
    Length:_____ft. Slot _____ Rge. 10E
    Elev. _____



SHOW LOCATION IN SECTION PLAT
NW SE¼

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	PVC # 200	0	42

16. Size Hole below casing: 5½ in.
17. Static level _____ft. below casing top which is _____ ft. above ground level. Pumping level _____ ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	1	1
Clay	9	10
Broken Rock	11	21
Shale	6	27
Rock	3	30
Shale	1	31
Rock	54	85
Sandstone	35	120

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [redacted] DATE 2-9-84

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG 2

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 6 in. Depth 115 ft.
   Curb material _____. Buried Slab: Yes_____ No_____
   b. Driven _____. Drive Pipe Diam. 6 in. Depth 40 ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	40

2. Distance to Nearest:
   Building 40 Ft. Seepage Tile Field 100'
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast Iron) _____
   Septic Tank 80' Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No_____
4. Date well completed 11/15/75
5. Permanent Pump Installed? Yes_____ No X
   Manufacturer _____ Type _____
   Capacity _____gpm. Depth of setting _____ ft.
6. Well Top Sealed? Yes X No_____
7. Pitless Adaptor Installed? Yes_____ No X
8. Well Disinfected? Yes X No_____
9. Water Sample Submitted? Yes_____ No X

REMARKS:

DRESDEN WELL DRILLING
BOX 24
WOOSUNG, ILL. 61091

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Non - Responsive Well No. 42983
    Address Non - Responsive
    Driller Ed Dresden License No. 92-524
11. Permit No. 42983 Date 11/13/75
12. Water from White Sandstone (Formation) 13. County Lee
    at depth 85 to 115 ft. Sec. 2
    14. Screen: Diam._____in. Twp. 21N
    Length:_____ft. Slot_____ Rge. 10E
    Elev._____

SHOW LOCATION IN SECTION PLA
2000'N 2000
of Sec SE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	PVC T+C	0	40

16. Size Hole below casing: 6 in.
17. Static level 25 ft. below casing top which is 1 f
    above ground level. Pumping level 40 ft. when pumping at 40
    gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH O BOTTOM
Clay	20	20
yellow Limestone	65	85
White Sandstone	30	115

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Dresden DATE 11/17/75

White Copy – Ill. Dept of. ..ic Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQU..ED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG 3

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 150 ft.
   Curb material _____. Buried Slab: Yes_____ No_____
   b. Driven _____. Drive Pipe Diam. _____ in. Depth ___X___ ft.
   c. Drilled _____. Finished in Drift _____. In Rock _____.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings		

2. Distance to Nearest:
   Building 40 Ft. — Seepage Tile Field _____
   Cess Pool _____ — Sewer (non Cast Iron) _____
   Privy _____ — Sewer (Cast Iron) _____
   Septic Tank 75 — Barnyard _____
   Leaching Pit _____ — Manure Pile _____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed 6-1-78
5. Permanent Pump Installed? Yes X Date 6-8-78 No____
   Manufacturer Barnes Type Subm. Location Well
   Capacity 40 gpm. Depth of Setting 105 Ft.
6. Well Top Sealed? Yes X No____ Type Williams Cap
7. Pitless Adapter Installed? Yes X No____
   Manufacturer Williams Model Number B50 AC
   How attached to casing? Bolted
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes X No____
10. Pressure Tank Size 42 gal. Type Con air
    Location Basement
11. Water Sample Submitted? Yes____ No X

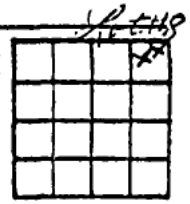
REMARKS:

OWNER INSTRUCTED TO TAKE SAMPLE

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [redacted] Well No. _____
    Address [redacted]
    Driller K & K Well Drilling License No. 102231
11. Permit No. 74695 Date 5-26-78
12. Water from Rock (Formation)
    at depth 135 to 150 ft.
13. County Lee
    Sec. 21h
    Twp. 21N
    Rge. 10E
    Elev. _____
14. Screen: Diam. _____ in.
    Length: _____ ft. Slot _____



SHOW LOCATION IN SECTION PLAT
Lot 8, NE NE NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Plastic	0	40

16. Size Hole below casing: 5 in.
17. Static level 48 ft. below casing top which is 1 ft. above ground level. Pumping level 105 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	3	3
Rock	62	65
Sandstone	70	135
Rock	15	150

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Lonnie Joe Mathews DATE June 8, 1978

White Copy – Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG 4

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
      Curb material________. Buried Slab: Yes____ No____
   b. Driven______. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift______. In Rock X.
      Tubular______. Gravel Packed________.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
[illegible]	0	57'

2. Distance to Nearest:
   Building 10 Ft. Seepage Tile Field 100' +
   Cess Pool —— Sewer (non Cast iron) 100'
   Privy —— Sewer (Cast iron) 50'
   Septic Tank 100' + Barnyard ——
   Leaching Pit —— Manure Pile ——
3. Well furnishes water for human consumption? Yes Yes No____
4. Date well completed April 1, 1977
5. Permanent Pump Installed? Yes____ Date [illegible] No____
   Manufacturer________Type______Location________
   Capacity______gpm. Depth of Setting__________Ft.
6. Well Top Sealed? Yes____No____Type________
7. Pitless Adapter Installed? Yes______ No [illegible]
   Manufacturer__________Model Number________
   How attached to casing?__________
8. Well Disinfected? Yes Yes No______
9. Pump and Equipment Disinfected? Yes______No______
10. Pressure Tank Size______gal. Type________
    Location__________
11. Water Sample Submitted? Yes______ No No

REMARKS: 6" pipe / 5" pipe

21.1'	21-7	6" shoe
20.7	23-7	5" OD. Shoe
16.0	23-7	5" OD packer
57.8'	24-6	56.6' of 6" pipe
-1.2'	24-6	185'-9" of 5" OD pipe
	24-10	
	21-10	
	21.0	
	185'-9"	

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD [redacted]

10. Property owner [redacted]
    Address [redacted]
    Driller A W Martin License No. 92-332
11. Permit No. 58477 Date March 30, 1977
12. Water from Sandstone (Formation) 13. County Lee
    at depth 220 to 260 ft.
14. Screen: Diam.______in.
    Length:____ft. Slot______

Sec. 10(?) Twp. 21 N Rge. 10 E Elev. 820

SHOW LOCATION IN SECTION PLAT: 400'S, 1100'E NW/c NW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Wt SC	+1	56.6
5" OD	185'-9"	45'	227'

16. Size Hole below casing: 4 3/4 in.
17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 75 ft. when pumping at 40 gpm for 4 hours.

18.

FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	3	3
Yellow Clay Gravel	36	39
Sandstone-Limestone	94	133
Limestone (Grey)	39	172
Sandstone-Shale (soft)	48	220
Sandstone	40'	260

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE April 6

White Copy
Ill. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG 5

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 8 in. Depth 365 ft.
   Curb material ____. Buried Slab: Yes____ No____
   b. Driven ____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled ____. Finished in Drift ____. In Rock XX.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed July 20, 1972
5. Permanent Pump Installed? Yes____ No X
   Manufacturer ____ Type ____
   Capacity ____gpm. Depth of setting ____ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes____ No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [redacted] Well No. 2
    Address [redacted]
    Driller Wehling Well Works License No. 72-55
11. Permit No. 17952 Date Nov 30, 1972
12. Water from ____ Formation 13. County Lee
    at depth ____ to ____ ft. Sec. 11 SE
    14. Screen: Diam. ____in. Twp. 21N
    Length: ____ft. Slot. ____ Rge. 10E
    350'N 450'W SE NW Elev. ____
15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	blackpipe	0	55

SHOW LOCATION IN SECTION PLAT
350'N 450'W
SE/c NW

16. Size Hole below casing: 8 in.
17. Static level ____ft. below casing top which is ____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	53	53
Lime	63	116
shale	3	119
sand	131	250
Lime	115	365

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Wehling Well Works, Inc. August 2, 1972 DATE ____

5

White Copy – Ill. Dept. Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG 6 1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material ________. Buried Slab: Yes______ No______
   b. Driven ______ Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X____. Finished in Drift ______. In Rock X____.
   Tubular ______. Gravel Packed ______.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Bentonite	0'	42' 2"

2. Distance to Nearest:
   Building 10 Ft. Seepage Tile Field 130'
   Cess Pool ——— Sewer (non Cast iron) 110'
   Privy ——— Sewer (Cast iron) 40'
   Septic Tank 110' Barnyard ———
   Leaching Pit ——— Manure Pile ———
3. Is water from this well to be used for human consumption?
   Yes Yes No______
4. Date well completed Nov 27 1970
5. Permanent Pump Installed? Yes______ No No
   Manufacturer —— Type ——
   Capacity —— gpm. Depth of setting —— ft.
6. Well Top Sealed? Yes Yes No______
7. Pitless Adaptor Installed? Yes______ No No
8. Well Disinfected? Yes Yes No______
9. Water Sample Submitted? Yes______ No No

REMARKS:
19-1 Well seal
15-10 Well Shoe
6-3 Clorine
45-2

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 11127 Year 1970
11. Property owner [redacted] Well No. 1
    Address [redacted]
    Driller Jim Martin License No. 92-330
12. Water from ______ (Formation) 13. County Lee
    at depth 75 to 130 ft.
14. Screen: Diam. ______in. Sec. 20/12
    Length: ____ft. Slot ______ Twp. 20/21N
    Rng. 11E 10E
    Elev. 800'
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	Wt. St. 19.45	+1	44' 2"

SHOW LOCATION IN SECTION PLAT
800'S 700'E
NW/c

16. Size Hole below casing: 6 in.
17. Static level 27 ft. below casing top which is 1 ft. above ground level. Pumping level 32 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	41	41
Lime stone, shale, sandstone	61	102
Sand Stone (Brown)	9	111
Sandstone (White)	19	130
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Jim Martin DATE Nov 27 1970

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

WELL LOG 7

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Drillcutting	0	58'

2. Distance to Nearest:
   Building 40 Ft. Seepage Tile Field Not Installed
   Cess Pool — Sewer (non Cast iron) "
   Privy — Sewer (Cast iron) 80'
   Septic Tank Not Installed Barnyard —
   Leaching Pit — Manure Pile —
3. Well furnishes water for human consumption? Yes Yes No____
4. Date well completed June 5 1979
5. Permanent Pump Installed? Yes____ Date____ No No
   Manufacturer____ Type____ Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes Yes No____ Type Compression Seal
7. Pitless Adapter Installed? Yes____ No No
   Manufacturer____ Model Number____
   How attached to casing?____
8. Well Disinfected? Yes Yes No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____ No No

REMARKS: 20'-3" Well Seal
19'-3" Clorine
19'-3" St permit
-8" Well Shoe
59'-4"

IDPH 4.085
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Non - Responsive Well No.____
    Address Non - Responsive
    Driller UW Martin License No. 92-332
11. Permit No. 85278 Date May 7, 1979
12. Water from Sandstone Formation 13. County Lee
    at depth 98 to 170 ft. Sec. 12.8h
14. Screen: Diam.____in. Twp. 21N
    Length:____ft. Slot____ Rge. 10E
    Elev. 869'

SHOW LOCATION IN SECTION PLAT 100'S, 500'E, NW/C

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Wtst 19 ft	+1	59'-4"

16. Size Hole below casing: 6 in.
17. Static level 18' ft. below casing top which is 1 ft. above ground level. Pumping level 42 ft. when pumping at 40 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	1	1
Clay	24'	25'
Sand-Shale Limestone	15'	40'
Limestone	58'	98'
Sandstone	72'	170'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED James Martin DATE June 10, 1979